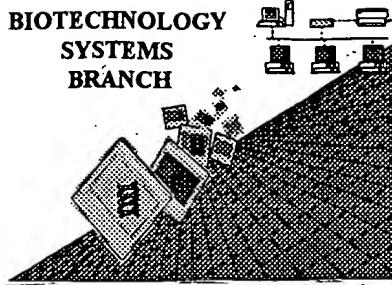


1116

**BEST AVAILABLE COPY**

**RAW SEQUENCE LISTING**  
**ERROR REPORT**



**RECEIVED,**  
JAN 31 2002  
TECH CENTER 1600/2900

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/847,102

Source: 1646

Date Processed by STIC: 1/23/2002

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.**

**FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.**

**PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE: SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

1. **EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)**

2. **U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202**

3. **Hand Carry directly to:**

**U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202**

**Or**

**U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202**

4. **Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202**

**Raw Sequence Listing Error Summary**

**ERROR DETECTED**      **SUGGESTED CORRECTION**      **SERIAL NUMBER:** 09/847,102

**ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE**

1  Wrapped Nucleic  
     Wrapped Aminos      The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2  Invalid Line Length      The rules require that a line not exceed 72 characters in length. This includes white spaces.

3  Misaligned Amino  
    Numbering      The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4  Non-ASCII      The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5  Variable Length      Sequence(s) \_\_\_\_\_ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6  PatentIn 2.0  
    "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) \_\_\_\_\_. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7  Skipped Sequences  
(OLD RULES)      Sequence(s) \_\_\_\_\_ missing. If intentional, please insert the following lines for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8  Skipped Sequences  
(NEW RULES)      Sequence(s) \_\_\_\_\_ missing. If intentional, please insert the following lines for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000

9  Use of n's or Xaa's  
(NEW RULES)      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.

10  Invalid <213>  
Response      Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11  Use of <220>  
→      Sequence(s) \_\_\_\_\_ missing the <220> "Feature" and associated numeric identifiers and responses.  
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12  PatentIn 2.0  
    "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13  Misuse of n      n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



1646

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/847,102

DATE: 01/23/2002  
TIME: 09:48:57

Input Set : D:\22000-20629.txt  
Output Set: N:\CRF3\01222002\I847102.raw

4 <110> APPLICANT: University of California  
5 Carson, Dennis A.  
6 Corr, Maripat  
7 Rhee, Chae-Seo  
8 Lorenzo, Leoni M.  
9 Malini, Sen  
11 <120> TITLE OF INVENTION: IMMUNOLOGIC COMPOSITIONS AND METHODS FOR  
12 STUDYING AND TREATING CANCERS EXPRESSING FRIZZLED ANTIGENS  
15 <130> FILE REFERENCE: 22000-20629.00  
17 <140> CURRENT APPLICATION NUMBER: 09/847,102  
18 <141> CURRENT FILING DATE: 2001-05-01  
20 <160> NUMBER OF SEQ ID NOS: 138  
22 <170> SOFTWARE: FastSEQ for Windows Version 4.0

Does Not Comply  
Corrected Diskette Needed

## ERRORED SEQUENCES

2495 <210> SEQ ID NO: 60  
2496 <211> LENGTH: 581  
2497 <212> TYPE: PRT  
2498 <213> ORGANISM: Homo sapiens  
2500 <400> SEQUENCE: 60  
2501 Met Gln Arg Pro Gly Pro Arg Leu Trp Leu Val Leu Gln Val Met Gly  
2502 1 5 10 15  
2503 Ser Cys Ala Ala Ile Ser Ser Met Asp Met Glu Arg Pro Gly Asp Gly  
2504 20 25 30  
2505 Lys Cys Gln Pro Ile Glu Ile Pro Met Cys Lys Asp Ile Gly Tyr Asn  
2506 35 40 45  
2507 Met Thr Arg Met Pro Asn Leu Met Gly His Glu Asn Gln Arg Glu Ala  
2508 50 55 60  
2509 Ala Ile Gln Leu His Glu Phe Ala Pro Leu Val Glu Tyr Gly Cys His  
2510 65 70 75 80  
2511 Gly His Leu Arg Phe Phe Leu Cys Ser Leu Tyr Ala Pro Met Cys Thr  
2512 85 90 95  
2513 Glu Gln Val Ser Thr Pro Ile Pro Ala Cys Arg Val Met Cys Glu Gln  
2514 100 105 110  
2515 Ala Arg Leu Lys Cys Ser Pro Ile Met Glu Gln Phe Asn Phe Lys Trp  
2516 115 120 125  
2517 Pro Asp Ser Leu Asp Cys Arg Lys Leu Pro Asn Lys Asn Asp Pro Asn  
2518 130 135 140  
2519 Tyr Leu Cys Met Glu Ala Pro Asn Asn Gly Ser Asp Glu Pro Thr Arg  
2520 145 150 155 160  
2521 Gly Ser Gly Leu Phe Pro Pro Leu Phe Arg Pro Gln Arg Pro His Ser

P.2

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/847,102

DATE: 01/23/2002  
TIME: 09:48:58

Input Set : D:\22000-20629.txt  
Output Set: N:\CRF3\01222002\I847102.raw

2522	165	170	175
2523	Ala Gln Glu His Pro Leu Lys Asp Gly Gly Pro Gly Arg Gly Gly Cys		
2524	180	185	190
2525	Asp Asn Pro Gly Lys Phe His His Val Glu Lys Ser Ala Ser Cys Ala		
2526	195	200	205
2527	Pro Leu Cys Thr Pro Gly Val Asp Val Tyr Trp Ser Arg Glu Asp Lys		
2528	210	215	220
2529	Arg Phe Ala Val Val Trp Leu Ala Ile Trp Ala Val Leu Cys Phe Phe		
2530	225	230	235
2531	240	245	255
2532	Ser Ser Ala Phe Thr Val Leu Thr Phe Leu Ile Asp Pro Ala Arg Phe		
2533	260	265	270
2534	Arg Tyr Pro Glu Arg Pro Ile Ile Phe Leu Ser Met Cys Tyr Cys Val		
2535	275	280	285
2536	Tyr Ser Val Gly Tyr Leu Ile Arg Leu Phe Ala Gly Ala Glu Ser Ile		
2537	290	295	300
2538	Ala Cys Asp Arg Asp Ser Gly Gln Leu Tyr Val Ile Gln Glu Gly Leu		
2539	295	300	
2540	Glu Ser Thr Gly Cys Thr Leu Val Phe Leu Val Leu Tyr Tyr Phe Gly		
2541	305	310	315
2542	320	325	335
2543	Met Ala Ser Ser Leu Trp Trp Val Val Leu Thr Leu Thr Trp Phe Leu		
2544	340	345	350
2545	345	350	
2546	Tyr Phe His Leu Ala Ala Trp Ala Ile Pro Ala Val Lys Thr Ile Leu		
2547	355	360	365
2548	Ile Leu Val Met Arg Arg Val Ala Gly Asp Glu Leu Thr Gly Val Cys		
2549	370	375	380
2550	Tyr Val Gly Ser Met Asp Val Asn Ala Leu Thr Gly Phe Val Leu Ile		
2551	385	390	395
2552	400	405	415
2553	Pro Leu Ala Cys Tyr Leu Val Ile Gly Thr Ser Phe Ile Leu Ser Gly		
2554	415	420	425
2555	430	435	440
2556	Phe Val Ala Leu Phe His Ile Arg Arg Val Met Lys Thr Gly Gly Glu		
2557	445	450	455
E-->	Val Leu Tyr Thr Val Pro Ala Thr Cys Val Ile Ala Cys Tyr Phe Xaa		
2558	460	465	470
2559	475	480	
2560	Glu His Leu Asn Met Asp Tyr Trp Lys Ile Leu Ala Ala Gln His Lys		
2561	485	490	495
2562	Cys Lys Met Asn Asn Gln Thr Lys Thr Leu Asp Cys Leu Met Ala Ala		
2563	500	505	510
2564	Ser Ile Pro Ala Val Glu Ile Phe Met Val Lys Ile Phe Met Leu Leu		
2565	515	520	525
2566	525	530	535
2567	540	545	550
2568	Gln Ser Trp Gln Gln Val Cys Ser Arg Arg Leu Lys Lys Lys Ser Arg		
2569	555	560	
2570	Ala		

see item 9  
on Error  
summary  
sheet

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/847,102

DATE: 01/23/2002  
TIME: 09:48:58

Input Set : D:\22000-20629.txt  
Output Set: N:\CRF3\01222002\I847102.raw

2571 Gln His Pro Gln Lys Thr His His Gly Lys Tyr Glu Ile Pro Ala Gln  
2572 565 570 575  
2573 Ser Pro Thr Cys Val  
2574 580

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/847,102

DATE: 01/23/2002

TIME: 09:48:59

Input Set : D:\22000-20629.txt

Output Set: N:\CRF3\01222002\I847102.raw

L:2557 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:60